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Director of Logistics Director of Communications Director of Communic	1959
ELINT Antenna-Filter-Detector System	25X1
1. This Office has an operational requirement for a ELINT antenna-filter-detector system to cover the frequency range of 50 to 40,000 mc. The attached proposal and cost analysis from the	25 X 1
covers the development and fabrication of this system.	25 X 1
has adequate laboratory facilities and experience in the antenna field and is apparently capable of per-	25X1
forming this work. was selected because they represent the only known source of logarithmically periodic antenna structures operating in these frequency ranges. We have carefully reviewed this proposal and its modifications and it is believed to be fair and reasonable.	25X1
3. With reference to Attachment B it will be noted that the total contract price is now \$119,380.00 in lieu of the original asking price of \$144,319.00. The original price included expenses to be incurred for the purchase of test equipment as outlined under Government Furnished Equipment of Attachment A. has agreed to accept the test equipment on a loan basis for the duration of the task and has therefore reduced their contract price accordingly. Attachment B of Specification No. 59-A-1088-A describes certain modifications to the electrical specifications which are considered necessary to meet operational requirements.	25X1
4. It is requested that contractual action be undertaken to accept this proposal as Task Order 8 of Contract RD-605 in accordance with the attached documents. Attached is Requisition No. MSB 59-611 dated 11 June 1959 indicating that the allotment to be charged for this work is 9-7900-50-600. Funds in the amount of \$119,380.00 have been encumbered for this project. The association of the Agency with the contract and the equipment is classified SECRET. The actual equipment and the engineering reports, however, are UNCLASSIFIED. The cognizant project engineer for the work is	25X1
Attachments: OC-E/R+D-EP/JHB:mjr (11 June 1959) Dist: R+D Sub./OC SPS (R+D Obl./R+D OC-e/R+D/EP/Proposal	25X1 25X1 25X1 25X1 25X1 25X1
(2) Attachment B (5) Specification No. 59-A-1088-A (3) Requisition No. MSB 59-611 (6) Attachment B to Specification	

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SECRET		11 June 1959		25X1
(IN TRIPLICA	MIR)			25X1
Attent	tion:			25 X 1
Subjec	et:	Antenna-Filter-Detector System covering the range of 50 mcs to 40,000 mcs, Submission of a revised quotation for		

Reference: (a) Buyer's letter dated 19 May 1959

(b) Seller's letter dated 2 June 1959

Enclosure: (A) Estimated Cost Analysis, in triplicate

Gentlemen:

Pursuant to Reference (a), the bidder submitted a formal cost-plus-fixedfee quotation, Reference (b), in response to the requirements contained therein. It was noted in Reference (b) that the estimated selling price for Item 1 included an amount for the purchase of certain test equipment as noted therein.

The bidder wishes to advise that if the test equipment as listed in Reference (b) is government furnished, the estimated selling price for Items 1, 2, 3, 4 and 5 can be reduced as follows:

Item 1	Two (2) Antenna-Filter-Detector Systems, 50-40,000 mc including four (4) antennas with crystal detectors, twelve (12) filters, and equipment boards where required for the mounting of ancillary equipment \$ 111,453.
Item 2	Manufacturing Drawings, two (2) sets, one (1) reproducible 1,157.
Item 3	Operating and Maintenance Manuals, six (6) each 2,570.
Item 4	Monthly Engineering Reports 1,339.
Item 5	Final Engineering Report 2,861. \$ 119,380.

The remaining terms and provisions of Reference (b) except as noted herein are applicable to the above quotation.

Very truly yours, THIS DOCUMENT CONTAINS INFORMATION AFFECT-ING THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF THE ESPIONARY TITLE 18, U. S. C., SECTIONS 793 AND 25X1; TRANSMISSION OR THE REVELATION OF ITS CON-TENTS IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW.

Assistant Director Contract Administration Division GWB:NKG:js **CLUDET**

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Declass	sified in Part - Sanitize	ed Copy Approved for Release 2012/09/12 : CIA-RDP78-03424A002100040004-2	25X1
	SECRET AIR MAIL (IN TRIPLICATE)	2 June 1959	25X1
		2	25 X 1
	Attention:	2	5 X 1
•	Subject:	Antenna-Filter-Detector System covering the range of 50 mcs to 40,000 mcs, Submission of a quotation for	
	Reference:	(a) Buyer's letter dated 19 May 1959	
	Enclosure:	(A) Estimated Cost Analysis, in triplicate	

Gentlemen:

Pursuant to Reference (a), the bidder submits the following quotation together with its estimated cost analysis, Enclosure (A), and engineering proposal, Enclosure (B), for consideration:

(B) Technical Proposal, in triplicate

Item	Description	Estimated Selling Price
1.	Two (2) Antenna-Filter-Detector Systems, 50 - 40,000 mc including four (4) Antennas with crystal detectors, twelve (12) filters, and equipment boards where required for the mounting of ancillary equipment.	\$ 136,392.
2.	Manufacturing Drawings, two (2) sets, one (1) reproducible	1,157.
3.	Operating and Maintenance Manuals, six (6) each	2,570.
4.	Monthly Engineering Reports	1,339.
5.	Final Engineering Report	2,861.
	Total Estimated Selling Price	\$ <u>144,319.</u>

SECRET

THIS DOCUMENT CONTAINS INFORMATION AFFECT-ING THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF THE ESPIONAGE LAWS, TITLE 18, U. S. C., SECTIONS 793 AND 794. ITS TRANSMISSION OR THE REVELATION OF ITS CON-TENTS IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW.

SECRET

-2-

2 June 1959

.25X1

The above equipment shall be in accordance with specifications as noted in Reference (a) except as modified by the bidder's engineering proposal, Enclosure (B).

The above quotation is predicated upon the award of a mutually acceptable cost-plus-fixed-fee research and development type of contract.

Delivery of the above items can be made in accordance with the following schedule:

Item	Delivery Date
1.	Twelve (12) months after receipt of fully executed contract
2. 3. 5.	One month after delivery of Item 1 above
4.	As required

In the event of award of contract based on this proposal, it is requested that provision be made for payments at intervals of not more than thirty (30) days, based on cost incurred and applicable proportion of the fixed fee. In addition, it is requested that the following provisions be included in any resulting contract:

"Articles customarily produced or assembled by the contractor in the regular course of its business and supplied in connection with this contract, whether or not such articles are catalog items, will be billed by the contractor and paid for hereunder at the contractor's lowest fixed price chargeable to an outside purchaser for similar quantities under comparable terms and provisions providing no duplication of profit results from this method of billing."

"Costs of research programs of a general nature will be acceptable to the extent found reasonable and allocable."

It should be noted that an amount has been included in the estimated selling price for Item 1 for the purchase of certain test equipment to be used in the design and fabrication of the antenna-filter-detector system. The following is a list of the test equipment which will be required:

Polored Signal Generators

Besic Unit	GB-3
10 KMC-15.5 KMC 15 KMC - 21 KMC	G 1015 G 1521
	790.0

Basic Unit 18 KMC - 22 KMC HO-2 G 1822-1 THIS BOCUMENT CONTAINS INTORNATION ARECTING THE NATIONAL SEPERSE OF THE UNITED STATES
WITHIN THE MEANING OF THE ESPINAGE LAWS,
TITLE 18, U.S. C., SECTIONS 703 AND 704. ITS
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PERSON IS PROHIBITED BY LAW.

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	SECRÉT -3-	2 June 1959
(Continue	d from Page 2) Polorad Si	mal Generators
	22 KMC - 25 KMC	G 2225-1
	24.7 KMC - 27.5 KMC	G 2427-1
	27.27 KMC - 30 KMC 29.7 KMC - 33.52 KMC	G 2730-1 G 3033-1
	33.52 KMC + 36.25 KMC	G 3336-1
Representatives further contract	of the bidder will be readily ual or technical discussion is	necessary. In matters pertaining
Representatives further contract to this quotation inquiries to	35.1 KMC - 39.7 KMC consideration of the enclosed of the bidder will be readily unal or technical discussion in please reference the subject that the subject is a subject to the subject that the subject is a subject to the subject	G 3540-1 puotation is respectfully requested. available in the event that necessary. In matters pertaining t proposal and address all tor, Contract Administration
Representatives further contract to this quotatio inquiries to	35.1 KMC - 39.7 KMC consideration of the enclosed of the bidder will be readily ual or technical discussion in please reference the subjection.	G 3540-1 puotation is respectfully requested. available in the event that necessary. In matters pertaining t proposal and address all tor, Contract Administration
Representatives further contract	35.1 KMC - 39.7 KMC consideration of the enclosed of the bidder will be readily unal or technical discussion in please reference the subject Assistant Direct Contract Admin	G 3540-1 puotation is respectfully requested. available in the event that necessary. In matters pertaining t proposal and address all tor, Contract Administration
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Representatives further contract to this quotation inquiries to	35.1 KMC - 39.7 KMC consideration of the enclosed of the bidder will be readily unal or technical discussion in please reference the subject Assistant Direct Contract Admin	G 3540-1 nuotation is respectfully requested. available in the event that necessary. In matters pertaining t proposal and address all tor, Contract Administration histrator.

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SECRET

PROPOSAL FOR THE DEVELOPMENT OF A

UHF ANTENNA SYSTEM (AN-22, AN-23, AN-24, AN-25)

25X1

It is proposed to develop a system of antennas, filters and detectors according to Development Specification No. 59-A-1088-A with the following exceptions.

Paragraph 3.3 Filter Characteristics

Paragraph 3.3.2 Electrical Considerations

The frequency ranges of the filters in the 50 to 500 mc range will be used as design goals. It is possible that it will be necessary to use four filters instead of three to cover this range.

Paragraph 3.3.2.1

The attenuation figure of 60 db at frequencies <u>f</u> 15% from the pass band will be used as a design goal. The guaranteed attenuation at these frequencies will be 45 db.

Paragraph 3.4 Detector Characteristics

The detector that will be used below 10 kmc will be the Sylvania IN 358A crystal in the Sage 101B holder. The sensitivity of this combination is shown in figure 15b, page 21 of Report No. 893 "Final Report on Broadband Antenna and Filters & Video Detector". The detectors used in the frequency range above 10 kmc will have sensitivities as described on page 22 of this report, i.e., -45 dbm from 10 to 20 kmc and -40 dbm from 20 to 40 kmc.

The techniques and components used to develop this system will be those described in Report No. 893.

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